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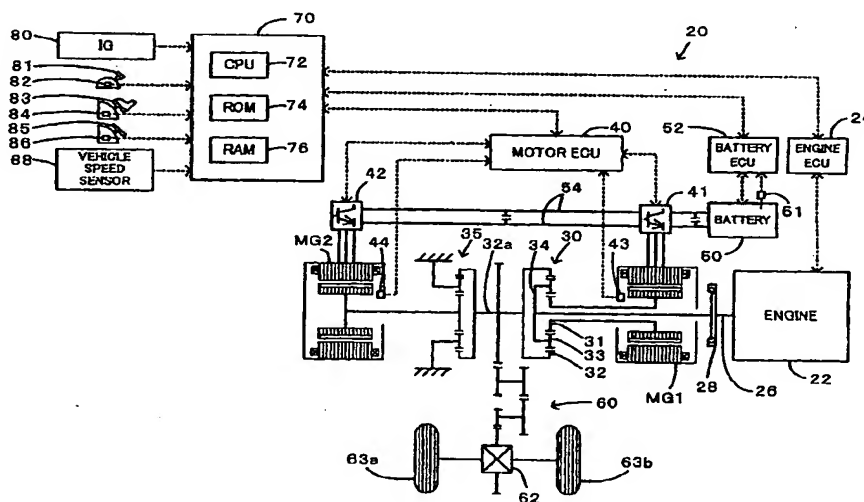
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(54) Title: POWER OUTPUT APPARATUS, METHOD OF CONTROLLING THE SAME, AND AUTOMOBILE



(57) Abstract: The technique of the invention sets an upper limit torque  $T_{m1max}$  and a lower limit torque  $T_{m1min}$  output from a motor generator, based on input and output restrictions  $W_{in}$  and  $W_{out}$  of a battery, a motor electric power demand  $P_{m2}$ , an auxiliary machinery electric power demand  $P_{csm}$ , and a potential loss  $P_{loss}$  (step S150). The technique then restricts a target revolution speed  $N_e^*$  of an engine to make an output torque of the motor generator within a range of the lower limit torque  $T_{m1min}$  to the upper limit torque  $T_{m1max}$  (steps S180 to S200). This arrangement ensures output of a torque in response to a driver's requirement, while effectively preventing the battery from being charged or discharged excessively.

WO 2005/005188 A1